

tranSMART

Software Requirements & Dependencies

Based on Ubuntu 13.04 (Raring)

Main components

- Grails (=2.2.4)
 - o Licence Apache 2.0
 - o www.grails.org
- PostgreSQL (>=9.1)
 - o Licence PostgreSQL
 - o www.postgresql.org
- R (=2.15)
 - o GNU General Public License version 3
 - o www.r-project.org
- Tomcat (=7.0.42)
 - o Licence Apache 2.0
 - o tomcat.apache.org

Specific Grails Plugins

- | | |
|----------------------------------|------------------------------------------|
| - build-info-1.1 | (Apache License version 2.0) |
| - code-coverage-1.2.6 | (Apache License version 2.0) |
| - db-reverse-engineer-0.5 | (Apache License version 2.0) |
| - hibernate-2.2.4 | (Apache License version 2.0) |
| - prototype-1.0 | (MIT License) |
| - quartz-1.0-RC2 | (Apache License version 2.0) |
| - resources-1.2 | (Apache License version 2.0) |
| - spring-security-core-1.2.7.3 | (Apache License version 2.0) |
| - tomcat-2.2.4 | (Apache License version 2.0) |
| - rdc-rmodules-0.3-SNAPSHOTintel | (Apache License version 2.0) |
| - tranSMART-core-1.0-SNAPSHOT | (GNU General Public License version 3.0) |

Specific R Module

- | | |
|--------------------|----------------------------------------------|
| - Rserve 1.7-3 | (GNU General Public License version 2.0) |
| - Cairo 1.5-2 | (GNU General Public License version 2.0) |
| - MASS 7.3-29 | (GNU General Public License version 2.0/3.0) |
| - stringr 0.6.2 | (GNU General Public License version 2.0) |
| - ggplot2 0.9.3.1 | (GNU General Public License version 2.0) |
| - plyr 1.8 | (MIT License) |
| - reshape2 1.2.2 | (MIT License) |
| - gplots 2.11.3 | (GNU General Public License version 2.0) |
| - data.table 1.8.8 | (GNU General Public License version 2.0/3.0) |
| - WGCNA 1.27-1 | (GNU General Public License version 2.0/3.0) |

Detail of OS package dependencies (Based on Ubuntu13.04)

grails (=2.2.4)

- See [Ivy Report](#) for details information about grails dependencies

postgresql-(>=9.1)

- [libc6](#) (>= 2.15)
Embedded GNU C Library: Shared libraries
also a virtual package provided by [libc6-udeb](#)
- [libcomerr2](#) (>= 1.01)
common error description library
- [libgssapi-krb5-2](#) (>= 1.8.dfsg)
MIT Kerberos runtime libraries - krb5 GSS-API Mechanism
- [libkrb5-3](#) (>= 1.6.dfsg.2)
MIT Kerberos runtime libraries
- [libldap-2.4-2](#) (>= 2.4.7)
OpenLDAP libraries
- [libpam0g](#) (>= 0.99.7.1)
Pluggable Authentication Modules library
- [libpq5](#) (>= 9.1~)
PostgreSQL C client library
- [libssl1.0.0](#) (>= 1.0.0)
SSL shared libraries
- [libxml2](#) (>= 2.7.4)
GNOME XML library
- [locales](#)
common files for locale support
- [postgresql-client-9.1](#)
front-end programs for PostgreSQL 9.1
- [postgresql-common](#) (>= 115~)
PostgreSQL database-cluster manager
- [ssl-cert](#)
simple debconf wrapper for OpenSSL
- [tzdata](#)
time zone and daylight-saving time data
- [locales-all](#)
Package not available
- [oidentd](#)
replacement ident daemon
or [ident-server](#)
virtual package provided by [bidentd](#), [ident2](#), [nullidentd](#), [oidentd](#), [pidentd](#)

tomcat7 (>=7.0.35-1)

- [adduser](#)
add and remove users and groups
- [debconf](#) (>= 0.5)
Debian configuration management system
or [debconf-2.0](#)
virtual package provided by [cdebconf](#), [cdebconf-udeb](#), [debconf](#)
- [tomcat7-common](#) (>= 7.0.35-1~exp2ubuntu1.1)
Servlet and JSP engine -- common files
- [ucf](#)
Update Configuration File: preserve user changes to config files.
- [authbind](#)
Allows non-root programs to bind() to low ports
- [libtcnative-1](#)
Tomcat native library using the apache portable runtime

- **tomcat7-admin** (>= 7.0.35-1~exp2ubuntu1.1)
Servlet and JSP engine -- admin web applications
- **tomcat7-docs** (>= 7.0.35-1~exp2ubuntu1.1)
Servlet and JSP engine -- documentation
- **tomcat7-examples** (>= 7.0.35-1~exp2ubuntu1.1)
Servlet and JSP engine -- example web applications
- **tomcat7-user** (>= 7.0.35-1~exp2ubuntu1.1)
Servlet and JSP engine -- tools to create user instances

r-cran-rserve (>=0.6-8-1)

- **libc6** (>= 2.15)
Embedded GNU C Library: Shared libraries
also a virtual package provided by **libc6-udeb**
- **r-base-core** (>= 2.14.1)
GNU R core of statistical computation and graphics system
 - ✓ **libblas3**
 - Basic Linear Algebra Reference implementations, shared library
 - or **libblas.so.3**
 - virtual package provided by **libatlas3-base**, **libblas3**, **libopenblas-base**
 - or **libatlas3-base**
 - Automatically Tuned Linear Algebra Software, generic shared
 - ✓ **libbz2-1.0**
 - high-quality block-sorting file compressor library - runtime
 - ✓ **libc6** (>= 2.16)
 - Embedded GNU C Library: Shared libraries
also a virtual package provided by **libc6-udeb**
 - ✓ **libcairo2** (>= 1.6.0)
 - The Cairo 2D vector graphics library
 - ✓ **libgfortran3** (>= 4.3)
 - Runtime library for GNU Fortran applications
 - ✓ **libglib2.0-0** (>= 2.12.0)
 - GLib library of C routines
 - ✓ **libgomp1** (>= 4.2.1)
 - GCC OpenMP (GOMP) support library
 - ✓ **libjpeg8** (>= 8c)
 - Independent JPEG Group's JPEG runtime library (dependency package)
 - ✓ **liblapack3**
 - Library of linear algebra routines 3 - shared version
 - or **liblapack.so.3**
 - virtual package provided by **libatlas3-base**, **liblapack3**
 - or **libatlas3-base**
 - Automatically Tuned Linear Algebra Software, generic shared
 - ✓ **liblzma5** (>= 5.1.1alpha+20120614)
 - XZ-format compression library
 - ✓ **libpango1.0-0** (>= 1.14.0)
 - Layout and rendering of internationalized text
 - ✓ **libpaper-utils**
 - library for handling paper characteristics (utilities)
 - ✓ **libpcre3** (>= 8.10)
 - Perl 5 Compatible Regular Expression Library - runtime files
 - ✓ **libpng12-0** (>= 1.2.13-4)
 - PNG library - runtime
 - ✓ **libreadline6** (>= 6.0)
 - GNU readline and history libraries, run-time libraries
 - ✓ **libtiff5** (>= 4.0.0-1~)
 - Tag Image File Format (TIFF) library
 - ✓ **libx11-6**
 - X11 client-side library
 - ✓ **libxt6**
 - X11 toolkit intrinsics library
 - ✓ **tcl8.5** (>= 8.5.0)
 - Tcl (the Tool Command Language) v8.5 - run-time files

- ✓ **tk8.5** ($\geq 8.5.0$)
 - Tk toolkit for Tcl and X11, v8.5 - run-time files
- ✓ **ucf** (≥ 3.0)
 - Update Configuration File: preserve user changes to config files.
- ✓ **unzip**
 - De-archiver for .zip files
- ✓ **xdg-utils**
 - desktop integration utilities from freedesktop.org
- ✓ **zip**
 - Archiver for .zip files
- ✓ **zlib1g** ($\geq 1:1.1.4$)
 - compression library - runtime
- ✓ **r-base-dev**
 - GNU R installation of auxiliary GNU R packages
- ✓ **r-doc-html**
 - GNU R html manuals for statistical computing system
- ✓ **r-recommended**
 - GNU R collection of recommended packages [metapackage]
- ✓ **ess**
 - Emacs mode for statistical programming and data analysis
- ✓ **r-base-html**
 - GNU R html docs for statistical computing system functions
- ✓ **r-doc-info**
 - GNU R info manuals statistical computing system
 - or **r-doc-pdf**
 - GNU R pdf manuals for statistical computing system
- ✓ **r-mathlib**
 - GNU R standalone mathematics library